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## PATENT

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January 24, 2005  
Date

Denise Sheridan  
Denise Sheridan

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Appl. No. : 10/816,178

Confirmation No. : 7900

Applicants : Gary Johnson et al.

Filed : March 31, 2004

Attorney Docket No.: 34020/US

Art Unit : 2816

Customer No. : 27,076

Examiner : Not yet assigned

Title : PHASE DETECTOR AND METHOD HAVING HYSTERESIS CHARACTERISTICS

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

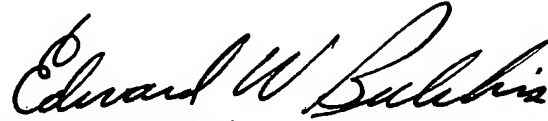
Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449. Copies of the cited U.S. patents will not be submitted herewith in accordance with the waiver by the Office of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for U.S. national patent applications filed after June 30, 2003. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,

DORSEY & WHITNEY LLP

A handwritten signature in black ink, reading "Edward W. Bulchis". The signature is fluid and cursive, with the first name "Edward" and last name "Bulchis" clearly legible.

Edward W. Bulchis

Registration No. 26,847

EWB:dms

Enclosures:

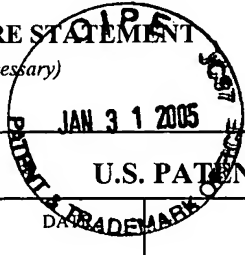
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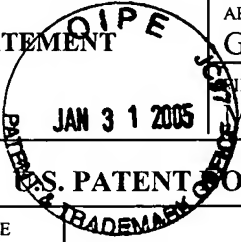
Form PTO-1449

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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 34020/US		APPLICATION NO. 10/816,178	
<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>				APPLICANT(S) Gary Johnson et al.			
				FILING DATE March 31, 2004		GROUP ART UNIT 2816	
<b>US PATENT DOCUMENTS</b>							
*EXAMINER INITIAL	AA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,009,448	02/22/77	Hopwood et al.	331	4	
	AB	4,190,807	02/26/80	Weber	331	1A	
	AC	4,313,089	01/26/82	Predina	328	155	
	AD	4,419,760	12/06/83	Bjornholt	375	120	
	AE	4,459,560	07/10/84	Kurihara	331	2	
	AF	4,470,018	09/04/84	Steinlin	328	133	
	AG	4,523,157	06/11/85	Sato	331	4	
	AH	4,565,976	01/21/86	Campbell	331	57	
	AI	4,599,570	07/08/86	Cloke	328	155	
	AJ	4,612,515	09/16/86	Ohkawa et al.	331	1A	
	AK	4,642,562	02/10/87	Collins et la.	324	83D	
	AL	4,691,175	09/01/87	Ecklund	331	1A	
	AM	4,750,193	06/07/88	Bailey	375	81	
	AN	4,752,748	06/21/88	Grzeszykowski	331	1A	
	AO	4,814,726	03/21/89	Byrd et al.	331	1A	
	AP	4,862,106	08/29/89	Toda et al.	331	2	
	AQ	4,987,387	01/22/91	Kennedy et al.	331	1A	
	AR	5,034,748	07/23/91	Goedeke et al.	342	99	
	AS	5,057,793	10/15/91	Cowley et al.	331	1A	
	AT	5,239,561	08/24/93	Wong et al.	375	81	
	AU	5,329,559	07/12/94	Wong et al.	375	119	
	AV	5,400,034	03/21/95	Smith	342	103	
	AW	5,477,177	12/19/95	Wong et al.	327	156	
	AX	5,594,361	01/14/97	Campbell	326	24	
EXAMINER				DATE CONSIDERED			
<b>* EXAMINER:</b> Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).							

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 <b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AY	5,602,884	02/11/97	Wieczorkiewicz et al.	375	376		
AZ	5,646,968	07/08/97	Kovacs et al.	375	375		
BA	5,953,284	09/14/99	Baker et al.	365	233		
BB	5,977,801	11/02/99	Boerstler	327	7		
BC	6,040,742	03/21/00	Bailey et al.	331	2		
BD	6,101,197	08/08/00	Keeth et al.	370	517		
BE	6,154,096	11/28/00	Chien	331	17		
BF	6,173,432 B1	01/09/01	Harrison	716	1		
BG	6,259,755 B1	07/10/01	O'Sullivan et al.	375	376		
BH	6,275,072 B1	08/14/01	Dally et al.	327	7		
BI	6,320,436 B1	11/20/01	Fawcett et al.	327	158		
BJ	6,356,129 B1	03/12/02	O'Brien et al.	327	175		
BK	6,480,047 B2	11/12/02	Abdel-Maguid et al.	327	161		
BL	6,496,554 B1	12/17/02	Ahn	375	376		
BM	6,531,926 B1	03/11/03	Pate et al.	331	17		
BN	6,545,507 B1	04/08/03	Goller	326	93		
BO	6,590,427 B2	07/08/03	Murphy et al.	327	12		
BP	6,636,090 B2	10/21/03	Ito	327	157		
BQ	6,640,194 B2	10/28/03	Little et al.	702	74		
BR	6,646,478 B2	11/11/03	Lamb	327	12		
BS	6,704,382 B1	03/09/04	Metzler et al.	375	376		
BT	6,744,293 B1	06/01/04	Fu et al.	327	158		
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BU	6,762,626 B1	07/13/04	Dreps et al.	327	2	
	BV	6,774,687 B2	08/10/04	Gomm et al.	327	158	
	BW	6,839,394 B1	01/04/05	Duffy	375	376	
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